

Interactive comment on “Retrieval of temperature, H₂O, O₃, HNO₃, CH₄, N₂O, ClONO₂ and ClO from MIPAS reduced resolution nominal mode limb emission measurements” by T. von Clarmann et al.

Anonymous Referee #1

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General comments:

The paper describes the retrieval of principal atmospheric state variables from MIPAS reduced resolution nominal mode limb emission measurements. The work does not infer any important new information on the atmospheric satellite retrievals, but it is done in order to state the complete description of the analysis for MIPAS reduced resolution mode measurements. The description of parameters and all retrieval characteristics is well-detailed. The paper is recommended for publication.

Specific comments:

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- Section 3.3 It is not clear why 'optimal estimation method' is mentioned as 'formerly called optimal estimation method' - the initial name of this method is still in use. Many authors use it as is in publications and scientific presentations.

- Section 3.5.2 Vertical resolution of retrieved products is extensively mentioned in the introduction and in the body of sections concerning each species, but it may be useful to summarize this characteristic of the retrievals in one table as it is done for the horizontal resolution (Table3).

Technical corrections:

- Section 7 First phrase: the misprint 'the reduced resolution mode' should be corrected.

Interactive comment on Atmos. Meas. Tech. Discuss., 2, 181, 2009.

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